

WOODLAND MANAGEMENT AND PRODUCTIVITY
North Star Area, Alaska: Detailed Soil Map Legend

(Only the soils suitable for production of commercial trees are listed)

Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
									m3/ha	
101: BOHICA-----	2A	Slight	Moderate	Slight	Moderate	Moderate	balsam poplar----- black spruce----- paper birch----- quaking aspen----- white spruce-----	--- --- --- --- 79	--- --- --- --- 2	white spruce
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
102: BOHICA-----	2A	Slight	Moderate	Slight	Moderate	Moderate	balsam poplar----- black spruce----- paper birch----- quaking aspen----- white spruce-----	--- --- --- --- 79	--- --- --- --- 2	white spruce
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
103: DUMPS, MINE-----	---	---	---	---	---	---	-----	---	---	---
PONDED AREAS----	---	---	---	---	---	---	-----	---	---	---
104: ESTER-----	---	Slight	Severe	Severe	Severe	Severe	black spruce----- paper birch----- quaking aspen----- tamarack----- white spruce-----	--- --- --- --- ---	--- --- --- --- ---	---

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									m3/ha	
HISTOSOLS-----	---	---	---	---	---	---	-----	---	---	---
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---
105: ESTER-----	---	Moderate	Severe	Severe	Severe	Severe	black spruce----- paper birch----- quaking aspen----- tamarack----- white spruce-----	--- --- --- --- ---	--- --- --- --- ---	---
HISTOSOLS-----	---	---	---	---	---	---	-----	---	---	---
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---
106: ESTER-----	---	Moderate	Severe	Severe	Severe	Severe	black spruce----- paper birch----- quaking aspen----- tamarack----- white spruce-----	--- --- --- --- ---	--- --- --- --- ---	---
GILMORE-----	2R	Moderate	Moderate	Slight	Moderate	Slight	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 38 44 68	--- 1 2 2	white spruce
FAIRBANKS-----	3A	Slight	Moderate	Slight	Moderate	Moderate	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 62 59 88	--- 3 4 3	paper birch, white spruce
ROCK OUTCROP----	---	---	---	---	---	---	-----	---	---	---
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---

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		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
STEESE-----	2A	Slight	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	51 43 78	m3/ha 2 2 2	paper birch, white spruce
107: FAIRBANKS-----	3A	Slight	Moderate	Slight	Moderate	Moderate	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 62 59 88	--- 3 4 3	paper birch, white spruce
GILMORE-----	2D	Slight	Moderate	Slight	Moderate	Slight	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 38 44 68	--- 1 2 2	white spruce
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
STEESE-----	2A	Slight	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	51 43 78	2 2 2	paper birch, white spruce
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
108: FAIRBANKS-----	3A	Slight	Moderate	Slight	Moderate	Moderate	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 62 59 88	--- 3 4 3	paper birch, white spruce
GILMORE-----	2D	Slight	Moderate	Slight	Moderate	Slight	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 38 44 68	--- 1 2 2	white spruce
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---

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Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
STEESE-----	2A	Slight	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	51 43 78	m3/ha 2 2 2	paper birch, white spruce
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
109: FAIRBANKS-----	3R	Moderate	Moderate	Slight	Moderate	Moderate	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 62 59 88	--- 3 4 3	paper birch, white spruce
GILMORE-----	2D	Slight	Moderate	Slight	Moderate	Slight	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 38 44 68	--- 1 2 2	white spruce
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
STEESE-----	2A	Slight	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	51 43 78	2 2 2	paper birch, white spruce
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
110: GILMORE-----	2D	Slight	Moderate	Slight	Moderate	Slight	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 38 44 68	--- 1 2 2	white spruce
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---

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Map symbol and soil name	Ordi- nation symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equip- ment limita- tion	Seedling mortal- ity	Wind- throw hazard	Plant competi- tion	Common trees	Site index	Volume of wood fiber	
									m3/ha	
111: GILMORE-----	2D	Slight	Moderate	Slight	Moderate	Slight	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 38 44 68	--- 1 2 2	white spruce
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---
112: GILMORE-----	2R	Moderate	Moderate	Slight	Moderate	Slight	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 38 44 68	--- 1 2 2	white spruce
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
113: GILMORE-----	2R	Moderate	Moderate	Slight	Moderate	Slight	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 38 44 68	--- 1 2 2	white spruce
ESTER-----	---	Moderate	Severe	Severe	Severe	Severe	black spruce----- paper birch----- quaking aspen----- tamarack----- white spruce-----	--- --- --- --- ---	--- --- --- --- ---	---

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Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
FAIRBANKS-----	3A	Slight	Moderate	Slight	Moderate	Moderate	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 62 59 88	m3/ha --- 3 4 3	paper birch, white spruce
HISTOSOLS-----	---	---	---	---	---	---	-----	---	---	---
ROCK OUTCROP----	---	---	---	---	---	---	-----	---	---	---
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---
STEESE-----	2A	Slight	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	51 43 78	2 2 2	paper birch, white spruce
114: GILMORE-----	2D	Slight	Moderate	Slight	Moderate	Slight	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 38 44 68	--- 1 2 2	white spruce
STEESE-----	2A	Slight	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	51 43 78	2 2 2	paper birch, white spruce
AQUIC CRYOCHREPTS----	---	---	---	---	---	---	-----	---	---	---
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
115: GOLDSTREAM-----	---	---	---	---	---	---	-----	---	---	---
PONDED AREAS----	---	---	---	---	---	---	-----	---	---	---

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Map symbol and soil name	Ordi- nation symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equip- ment limita- tion	Seedling mortal- ity	Wind- throw hazard	Plant competi- tion	Common trees	Site index	Volume of wood fiber	
									m3/ha	
HISTOSOLS-----	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
116: GOLDSTREAM-----	---	---	---	---	---	---	-----	---	---	---
PONDED AREAS----	---	---	---	---	---	---	-----	---	---	---
HISTOSOLS-----	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
117: GOLDSTREAM-----	---	---	---	---	---	---	-----	---	---	---
PERGELIC CRYOHEMISTS----	---	---	---	---	---	---	-----	---	---	---
PONDED AREAS----	---	---	---	---	---	---	-----	---	---	---
118: HISTIC PERGELIC CRYAQUEPTS-----	---	---	---	---	---	---	-----	---	---	---
HISTOSOLS-----	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
119: HISTIC PERGELIC CRYAQUEPTS-----	---	---	---	---	---	---	-----	---	---	---
HISTOSOLS-----	---	---	---	---	---	---	-----	---	---	---
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---

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Map symbol and soil name	Ordination symbol	Management concerns					Potential productivity			Suggested trees to plant
		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
120:									m3/ha	
HISTIC PERGELIC CRYAQUEPTS-----	---	---	---	---	---	---	-----	---	---	---
FUBAR-----	2F	Slight	Moderate	Moderate	Moderate	Slight	balsam poplar----- black spruce----- paper birch----- quaking aspen----- white spruce-----	--- --- --- 79	--- --- --- 2	paper birch, white spruce
HISTOSOLS-----	---	---	---	---	---	---	-----	---	---	---
PONDED AREAS----	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
121:										
HISTIC PERGELIC CRYAQUEPTS-----	---	---	---	---	---	---	-----	---	---	---
TYPIC CRYOCHREPTS----	---	---	---	---	---	---	-----	---	---	---
ROCK OUTCROPPINGS---	---	---	---	---	---	---	-----	---	---	---
SOMEWHAT POORLY DRAINED SOILS--	---	---	---	---	---	---	-----	---	---	---
122:										
HISTIC PERGELIC CRYAQUEPTS-----	---	---	---	---	---	---	-----	---	---	---
TYPIC CRYOCHREPTS----	---	---	---	---	---	---	-----	---	---	---

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		Erosion hazard	Equipment limitation	Seedling mortality	Wind-throw hazard	Plant competition	Common trees	Site index	Volume of wood fiber	
ROCK OUTCROPPINGS---	---	---	---	---	---	---	-----	---	m3/ha ---	---
SOMEWHAT POORLY DRAINED SOILS--	---	---	---	---	---	---	-----	---	---	---
123: JARVIS-----	2A	Slight	Slight	Slight	Moderate	Moderate	balsam poplar----- black spruce----- paper birch----- quaking aspen----- white spruce-----	--- --- 50 60 80	--- --- 2 4 2	paper birch, white spruce
FUBAR-----	2F	Slight	Moderate	Moderate	Moderate	Slight	balsam poplar----- black spruce----- paper birch----- quaking aspen----- white spruce-----	--- --- --- --- 79	--- --- --- --- 2	paper birch, white spruce
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
AQUEPTS-----	---	---	---	---	---	---	-----	---	---	---
124: JARVIS-----	2A	Slight	Slight	Slight	Moderate	Moderate	balsam poplar----- black spruce----- paper birch----- quaking aspen----- white spruce-----	--- --- 50 60 80	--- --- 2 4 2	paper birch, white spruce
SALCHAKET-----	3A	Slight	Slight	Slight	Slight	Moderate	balsam poplar----- white spruce-----	--- 94	--- 3	white spruce
ABANDONED CHANNELS, SLOUGHS-----	---	---	---	---	---	---	-----	---	---	---

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FUBAR-----	2F	Slight	Moderate	Moderate	Moderate	Slight	balsam poplar----- black spruce----- paper birch----- quaking aspen----- white spruce-----	--- --- --- --- 79	m3/ha --- --- --- 2	paper birch, white spruce
125: PERGELIC CRYOHEMISTS----	---	---	---	---	---	---	-----	---	---	---
SMALL PONDS----	---	---	---	---	---	---	-----	---	---	---
126: PITS, GRAVEL----	---	---	---	---	---	---	-----	---	---	---
SMALL PONDS----	---	---	---	---	---	---	-----	---	---	---
127: RIVERWASH-----	---	---	---	---	---	---	-----	---	---	---
FLUVENTS-----	---	---	---	---	---	---	-----	---	---	---
128: RUBBLE LAND----	---	---	---	---	---	---	-----	---	---	---
ROCK OUTCROP----	---	---	---	---	---	---	-----	---	---	---
129: SALCHAKET-----	2A	Slight	Slight	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	--- --- 73	--- --- 2	paper birch, white spruce
JARVIS-----	2A	Slight	Slight	Slight	Moderate	Moderate	balsam poplar----- black spruce----- paper birch----- quaking aspen----- white spruce-----	--- --- 50 60 80	--- --- 2 4 2	paper birch, white spruce

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									m3/ha	
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
130: SAULICH-----	---	---	---	---	---	---	-----	---	---	---
HISTOSOLS-----	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
131: SAULICH-----	---	---	---	---	---	---	-----	---	---	---
HISTOSOLS-----	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
132: SAULICH-----	---	---	---	---	---	---	-----	---	---	---
HISTOSOLS-----	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
133: SAULICH-----	---	---	---	---	---	---	-----	---	---	---
FAIRBANKS-----	3A	Slight	Moderate	Slight	Moderate	Moderate	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 62 59 88	--- 3 4 3	paper birch, white spruce
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---

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STEESE-----	2A	Slight	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	51 43 78	m3/ha 2 2 2	paper birch, white spruce
134: STEESE-----	2A	Slight	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	51 43 78	2 2 2	paper birch, white spruce
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---
STEEPER SLOPES--	---	---	---	---	---	---	-----	---	---	---
135: STEESE-----	2R	Moderate	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	51 43 78	2 2 2	paper birch, white spruce
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
136: STEESE-----	2R	Moderate	Moderate	Slight	Moderate	Moderate	paper birch----- quaking aspen----- white spruce-----	51 43 78	2 2 2	paper birch, white spruce
GILMORE-----	2R	Moderate	Moderate	Slight	Moderate	Slight	black spruce----- paper birch----- quaking aspen----- white spruce-----	--- 38 44 68	--- 1 2 2	white spruce
SHALLOWER SOILS-	---	---	---	---	---	---	-----	---	---	---

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137:									m3/ha	
TANANA-----	2A	Slight	Moderate	Slight	Moderate	Moderate	balsam poplar-----	---	---	paper birch, white spruce
							black spruce-----	---	---	
							paper birch-----	53	2	
							white spruce-----	79	2	
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
AQUEPTS-----	---	---	---	---	---	---	-----	---	---	---
138:										
TYPIC										
CRYOCHREPTS----	---	---	---	---	---	---	-----	---	---	---
TYPIC										
CRYOCHREPTS----	---	---	---	---	---	---	-----	---	---	---
ROCK OUTCROP----	---	---	---	---	---	---	-----	---	---	---
AQUEPTS-----	---	---	---	---	---	---	-----	---	---	---
PERMAFROST SOILS	---	---	---	---	---	---	-----	---	---	---
RUBBLE LAND----	---	---	---	---	---	---	-----	---	---	---
139:										
WATER-----	---	---	---	---	---	---	-----	---	---	---